ABSTRACT OF THE DISCLOSURE

A cooling system for a vehicle having a direct current electric power supply includes a compressor driven by an engine, a condenser connected to the compressor, and an evaporator connected between the condenser and the compressor. The fans for blowing air past the condenser and the evaporator are powered by alternating current motors that are much more economical and maintenance-free than the direct current motors currently in use. An inverter connected to the direct current power supply provides alternating current to the alternating current motors. In an alternative embodiment, the inverter may provide variable output frequency, and the motors may have output speed related to current frequency for temperature control.